



UTAH SEISMIC  
SAFETY COMMISSION



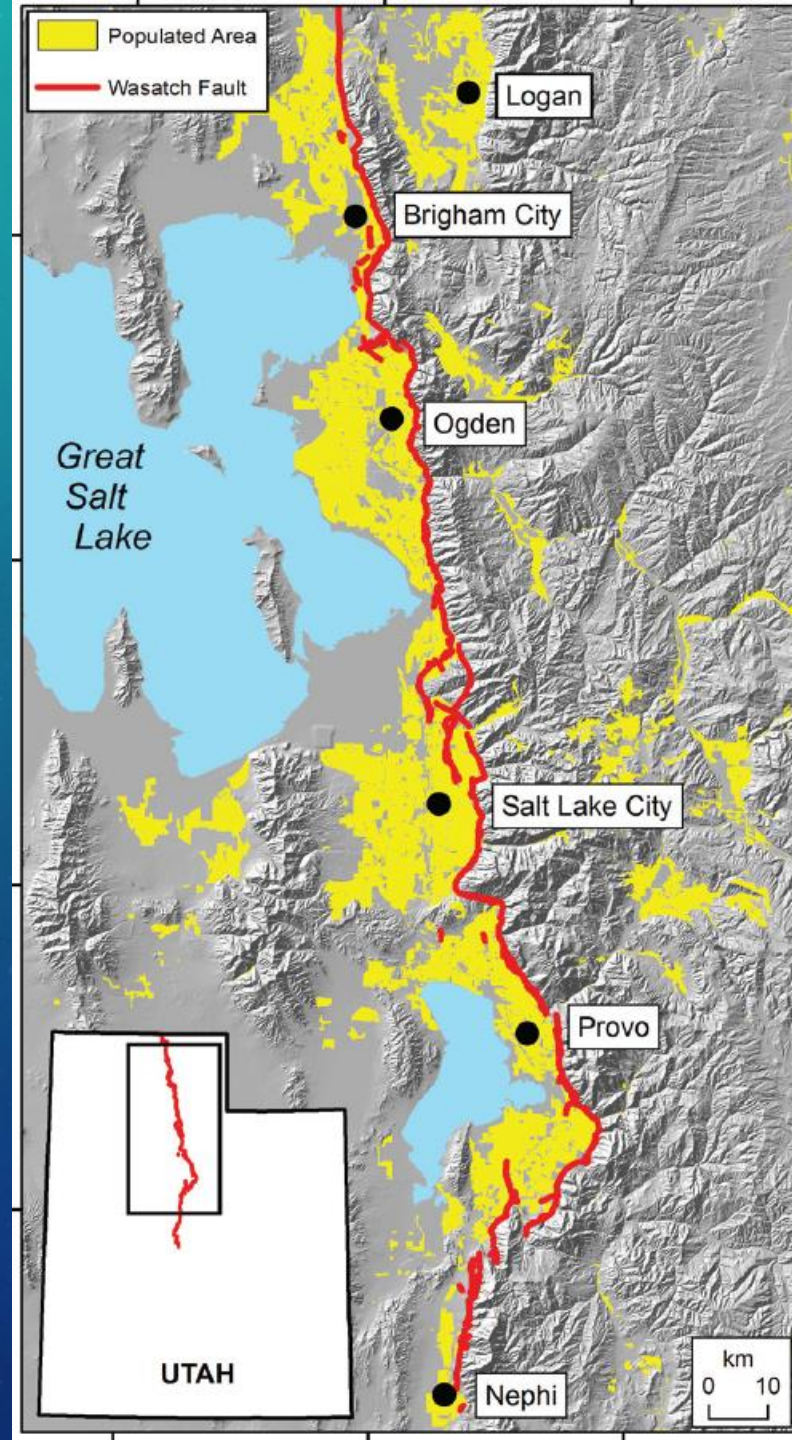
# UTAH SEISMIC SAFETY COMMISSION (USSC)

OVERVIEW BY M. LEON BERRETT, P.E.  
USSC CHAIR

# IMPORTANT POINT # 1

## UTAH WILL EXPERIENCE A LARGE EARTHQUAKE!

- 80% of Population lives along Wasatch Fault area.
- 75% of Economy is located along Wasatch Fault area.





# WHAT IS THE USSC???

## History

- Established by House Bill 358 in 1994
- 2000 – HB 200 – Utah Code Title 63C – Chapter 6
- Advisory – no regulatory or statutory authority
- 15 Commissioners representing 15 Organizations

# Utah Seismic Safety Commission

a volunteer, multidisciplinary state commission focused on reducing Utah's earthquake risk

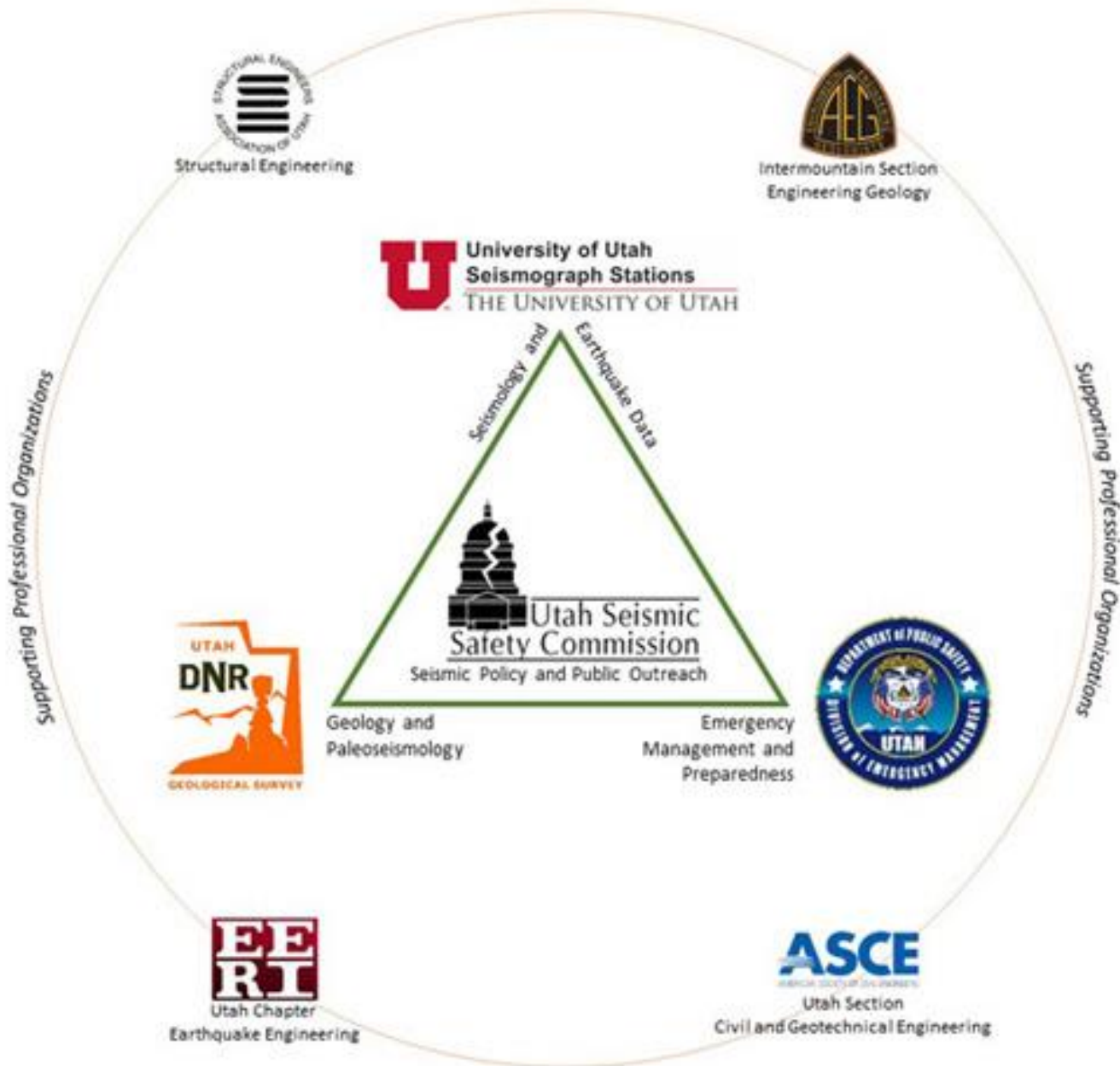


# UTAH SEISMIC SAFETY COMMISSION

## List of USSC Member Organizations

# Utah Earthquake Program

*an integrated Utah state agency and professional organization partnership to reduce earthquake risk*

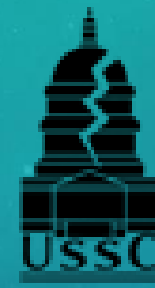


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USSC – Public  
Face of a Much  
Larger  
Earthquake  
Program in Utah



# WHAT DOES THE USSC DO?



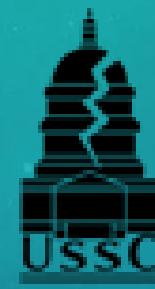
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## Primary Mission:

### Advocate for Earthquake Awareness and Preparedness!

- **Review** earthquake-related hazards and risks.
- **Prepare recommendations** to identify and mitigate hazards and risk.
- **Prioritize** recommendations for adoption as policy or loss-reduction strategies.
- Act as a **source of information** for earthquake safety and promotion of earthquake loss-reduction measures.

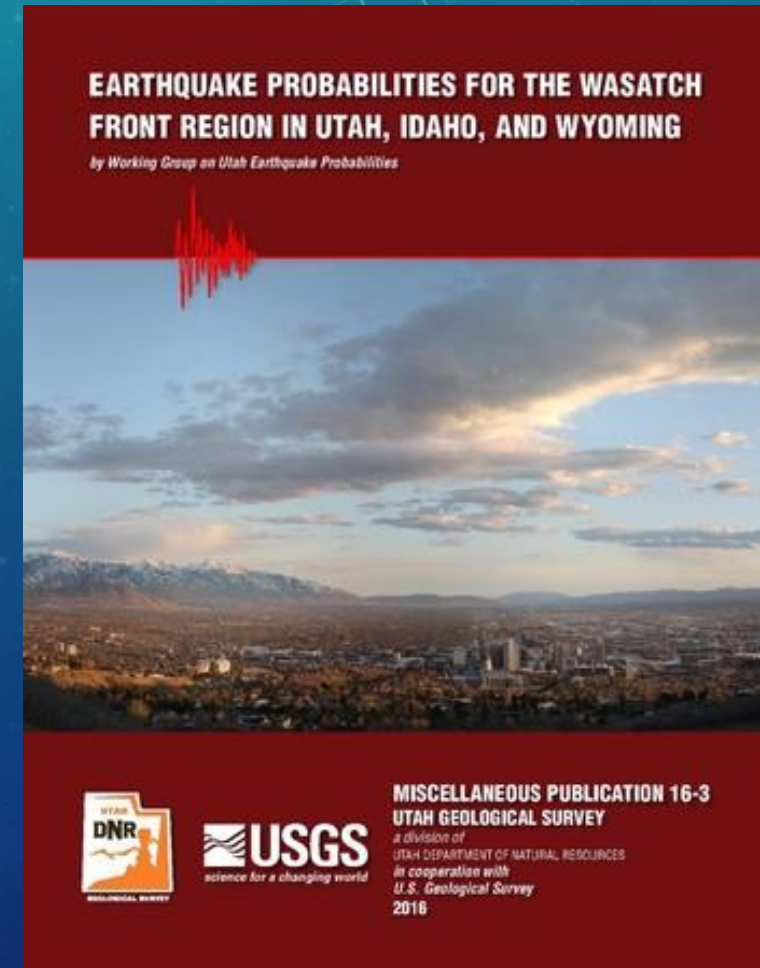
# HIGHLIGHTS:



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- Probability Report

- Probability of a major earthquake (6.75 M) is projected to be much larger than previously predicted.
- Larger Area of Potential Earthquakes.
- 6.75 M is almost 3 times bigger than a 6.3 M (Christchurch Earthquake of 2011) and has almost 5 times the energy release.



CHRISTCHURCH EARTHQUAKE – 6.3 M



# IMPORTANT POINT # 2

**A MAJOR EARTHQUAKE IS A BIG DEAL!**

**QUICK - DEADLY - COSTLY**

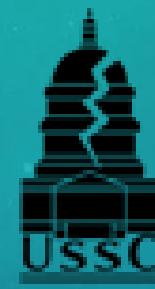




# THE HUMAN COST



# HIGHLIGHTS



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- **7.0 M Scenario Report**

- \$33,000,000,000.00 Economic Hit
- Over 200,000 URM (Unreinforced Masonry) Buildings in Utah
- Over 10,000 Fatalities and Life Threatening Injuries

**Scenario for a Magnitude 7.0  
Earthquake on the Wasatch  
Fault–Salt Lake City Segment**

**Hazards and Loss Estimates**



Developed by the  
Earthquake Engineering Research Institute,  
Utah Chapter

Prepared for the  
Utah Seismic Safety Commission



June 4, 2015





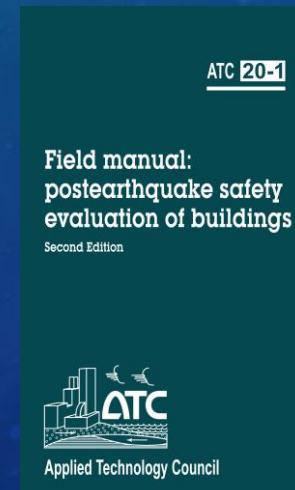
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- **Provide Awareness**
  - Publications
  - Social Media / Outreach Programs
- **Advocate Legislation**
  - Parapet Ordinance
  - Reauthorization of NEHRP Law



# • Support Seismic Safety Efforts

- Schools - RVS's (Rapid Visual Screenings)
- Utah Geological Survey – Trenches for Seismic Studies
- Fix the Bricks Program – Salt Lake City
- ATC 20-1 - Training & Credentialing for Post Earthquake Evaluations needs.
- Annual Utah ShakeOut

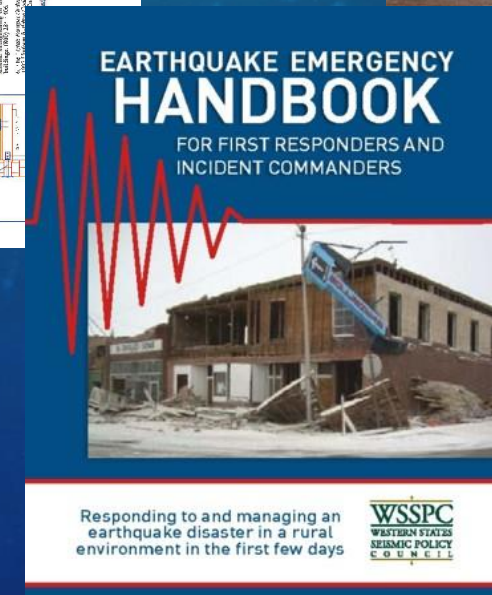
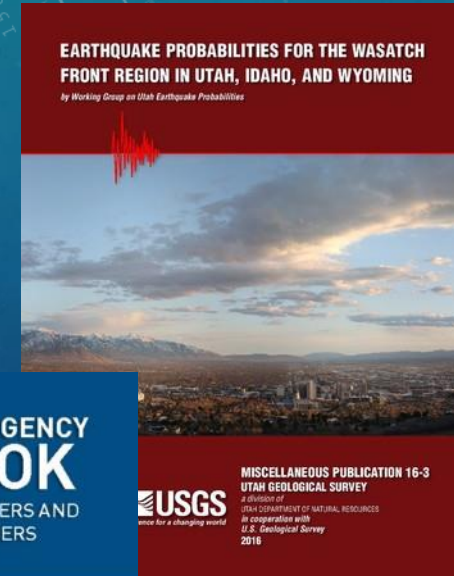
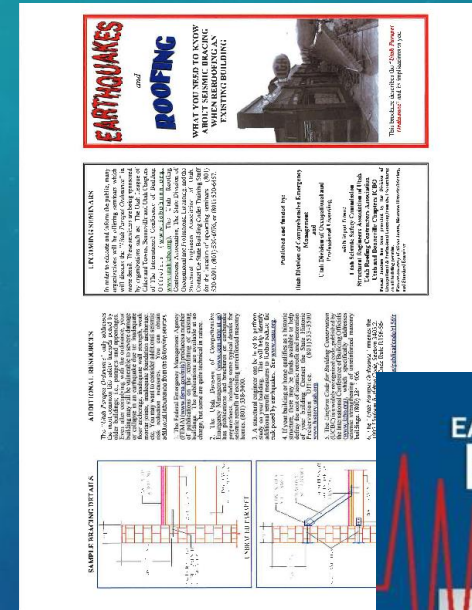




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# • Provide Publications

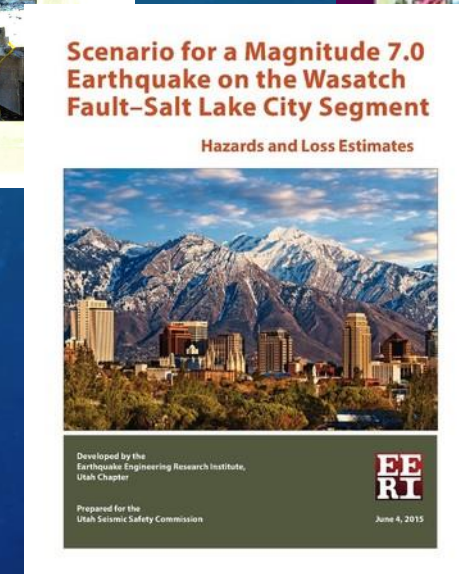
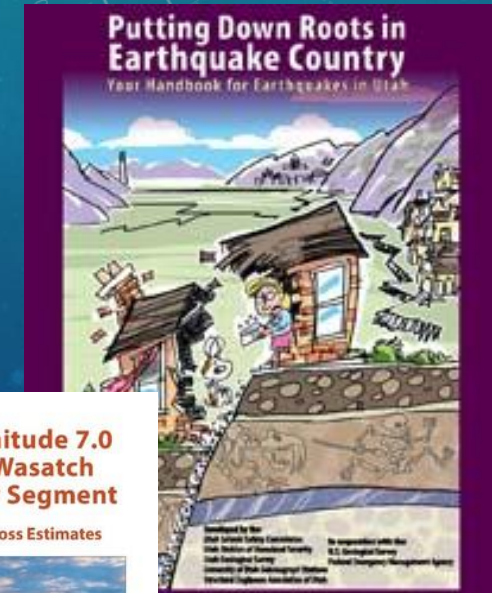
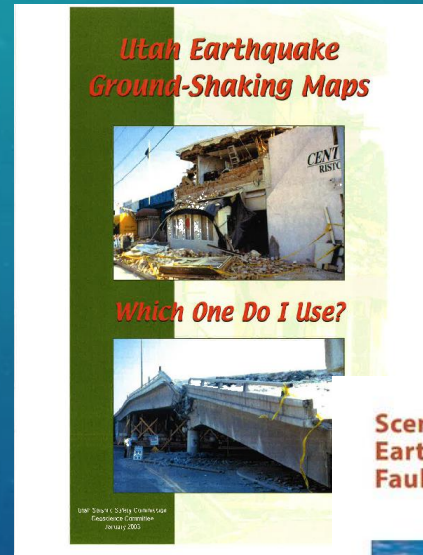
- Earthquakes and Roofing
- Earthquake Emergency Handbook
- Earthquake Probabilities Report





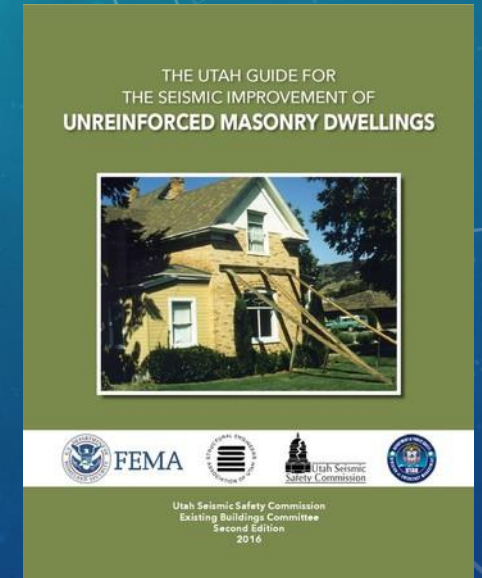
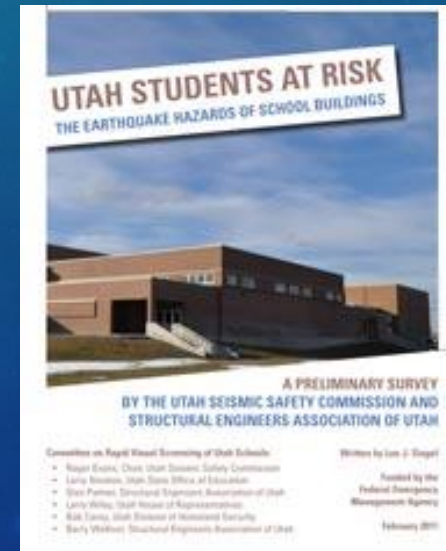
# • Provide Publications

- Putting Down Roots in Earthquake Country
- Scenario for a 7.0 M Report
- Utah Earthquake Ground-shaking Maps



# • Provide Publications

- Utah Guide for the Seismic Improvement of Unreinforced Masonry Dwellings
- Utah Students at Risk
- Utah Earthquake Video







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# PARTNERSHIPS

- Cities, Towns and Counties
- State of Utah
- Neighbor States & Federal Agencies
  - Nevada Joint Meetings
- WSSPC – Western States Seismic Policy Council
- And More!



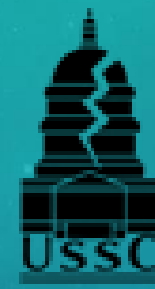
# IMPORTANT POINT #3

## BE PREPARED!

- TO WITHSTAND – Building Codes - Mitigation
- TO RESPOND – First Responders - “Everyone!”
- TO RECOVER - \$33,000,000,000.00 Economic Hit and the HUMAN COST

# BONUS POINT!!!

**We Strongly Support a  
STATEWIDE, ALL HAZARD,  
COMPREHENSIVE RESILIENCY  
PLAN!**



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**USSC IS A VALUABLE TOOL AND RESOURCE**

**PLEASE VISIT US AT:**

**[HTTPS://USSC.UTAH.GOV](https://ussc.utah.gov)**

**QUESTIONS?**